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IS 9770 (1981): Bulkhead elbow coupling assembly for oil hydraulic systems [PGD 17: Fluid Power Fittings, Hoses and Hose Assemblies]

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AMENDMENT NO. 1 DECEMBER 1989

TO

IS : 9770 - 1981 SPECIFICATION FOR BULKHEAD ELBOW COUPLING ASSEMBLY FOR OIL-HYDRAULIC SYSTEMS

(*Page* 1, *clause* **3**) — Substitute the following for the existing clause

"**3. Assembly Details** — A bulkhead coupling assembly consists of ferrules conforming to IS : 8802-1987 ' Specification for ferrules for oil-hydraulic couplings (*first revision*) ', coupling nuts conforming to IS : 8803-1987 ' Specification for coupling nuts for oil-hydraulic couplings (*first revision*) ', lock nuts conforming to IS : 10410-1983 ' Specification for lock nuts for bulkhead coupling assembly for oil hydraulic systems ' and bulkhead elbow body conforming to IS : 9757 (Part 1)-1981 ' Specification for bulkhead elbow body for oil-hydraulic couplings Part 1 Made from forgings ' or IS : 9757 (Part 2)-1983 ' Specification for bulkhead elbow body for oil-hydraulic couplings. Part 2 Made from bar stock ' as agreed to between the user and the manufacturer "

(FDC 73)

Printed at New India Printing Press, Khurja, India

Indian Standard

SPECIFICATION FOR BULKHEAD ELBOW COUPLING ASSEMBLY FOR OIL-HYDRAULIC SYSTEMS

1 Scope — *Specifies the dimensions and other requirements for bulkhead elbow coupling assembly used in oil-hydraulic systems*

2. Dimensions — Shall be as given in Table 1

3. Assembly Details — A bulkhead coupling assembly consists of ferrules (conforming to IS 8802-1978 'Specification for ferrules for oil-hydraulic couplings'), coupling nut (conforming to IS 8803-1978 'Specification for coupling nuts for oil-hydraulic couplings'), lock nut [conforming to 'Indian Standard Specification for lock nuts for oil-hydraulic couplings (*under preparation*)] and bulkhead elbow body conforming to IS 9757 (Part I)-1981 Specification for bulkhead elbow body for oil-hydraulic couplings, Part I Made from forgings' or 'Indian Standard Specification for bulkhead elbow body made from bar stock (*under preparation*)' as agreed to between the user and the manufacturer

4. General Requirements — For details not covered in this standard, reference shall be made to IS 8805(Part I)-1978 'General requirements for ferrule type couplings used in oil-hydraulic systems Part I General'

5. Designation — A bulkhead elbow coupling assembly of light series L for outside diameter of tube 6 mm and conforming to this standard shall be designated as

Bulkhead Elbow Coupling L6 IS 9770

EXPLANATORY NOTE

In the preparation of this standard, assistance has been derived from the following standards

BS 4368 Part 1 1972	Specification for carbon and stainless steel compression couplings for tubes Heavy series (metric)
Part 3 : 1974	Light series (metric) British Standards Institution (BSI)
DIN 2353-1966	Non-soldered taper-bush type pipe unions, complete unions and survey. Deutsches Institut für Normung (DIN)

Adopted 12 March 1981
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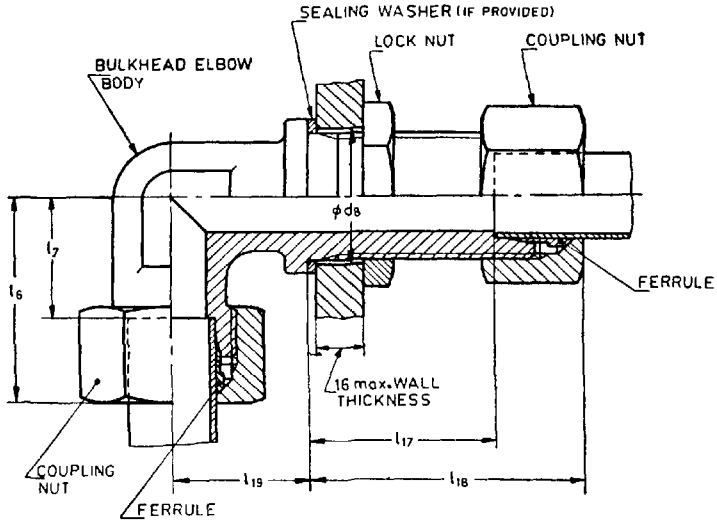
Fluid Power Systems and Components Sectional Committee EDC 73 and Port Fittings, Tubes, Hoses Fittings and Assemblies Subcommittee, EDC 73 : 2
[Ref Doc EDC 73 (3066)]

TABLE 1 DIMENSIONS FOR BULKHEAD ELBOW COUPLING ASSEMBLY

(*Clause* 2)

All dimensions in millimetres.



Series	Outside Dia of Tube	d_8	l_6*	l_7	l_{17}	l_{18}*	l_{19}	Size of Sealing Washer†
Light L	6	14	27	12·0	27·0	42	14	12×15 5
	8	16	29	14·0	27·0	42	17	14×18 0
	10	18	30	15 0	28·0	43	18	16×20 0
	12	20	32	17·0	29·0	44	20	18×22·0
	15	24	36	21 0	31·0	46	23	22×27·0
	18	28	40	23 5	32 5	49	24	26×31 0
	22	32	44	27 5	34·5	51	30	30×36 0
	28	38	47	30 5	35 5	52	34	36×42·0
	35	47	56	34 5	36·5	58	39	45×52 0
	42	54	63	40·0	36 0	59	43	52×60 0
Heavy H	6	16	31	16 0	29 0	44	17	14×18 0
	8	18	32	17 0	29·0	44	18	16 20 0
	10	20	34	17 5	29 5	46	20	18×22 0
	12	22	38	21·5	30 5	47	21	20×24 0
	14	24	40	22·0	32·0	50	23	22×27 0
	16	26	43	24·5	31·5	50	24	24×29·0
	20	32	48	26 5	33·5	55	30	30×36·0
	25	38	54	30·0	35·0	59	34	36×42 0
	30	44	62	35·5	37 5	64	39	42×49 0
	38	54	72	41·0	37·0	68	43	52×60·0

*The dimensions l_6 and l_{18} are approximate and tightened condition.

†Sealing washer shall conform to IS : 3175 - 1974 'Sealing washers for pipe unions (*first revision*)'.

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